

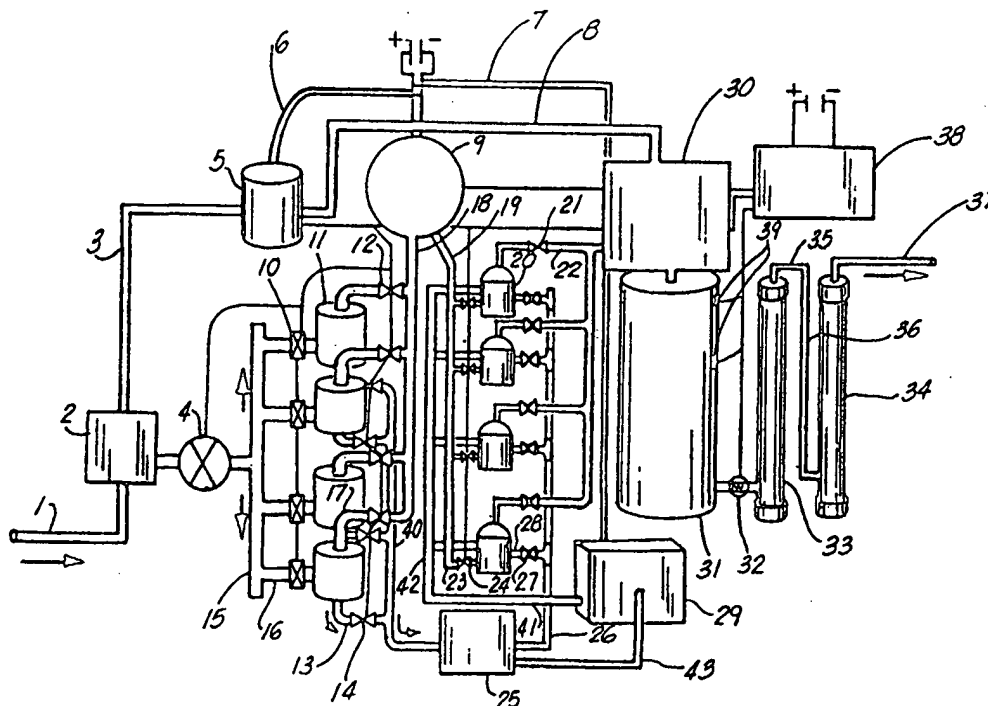
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : B01D 3/06, 3/10, 3/42, C02F 1/06, 1/16, 1/20		A1	(11) International Publication Number: WO 97/49473
			(43) International Publication Date: 31 December 1997 (31.12.97)
(21) International Application Number: PCT/US97/11261 (22) International Filing Date: 27 June 1997 (27.06.97) (30) Priority Data: 60/022,015 27 June 1996 (27.06.96) US (71)(72) Applicant and Inventor: HOLCOMB, Robert, R. [US/US]; Suite 1150, 2100 West End Avenue, Nashville, TN 37203 (US). (74) Agent: SMITH, Gregory, C.; Pravel, Hewitt, Kimball & Krieger, 10th floor, 1177 West Loop South, Houston, TX 77027 (US).		(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	

(54) Title: WATER TREATMENT DEVICE AND METHOD



(57) Abstract

A computer monitored and controlled system for degassing, superheating and exploding water into a vacuum chamber (20), in which instant steam results. The steam is condensed in a chilled countercurrent brine apparatus (30), stored in a holding tank (31) containing